

Siremobil Iso-C 3D Option

SP

Service Instructions **SP012/03/I**

Title: Option 3D, SW Update VB00B

Reason for update:

☐ Reliability

☒ Infrequent Service

Urgency: ☐ Immediate ☐ Within months

Update materials required? ☒ Yes ☐ No

Materials free of charge? ☒ Yes ☐ No

Return of parts? ☐ Yes ☒ No

Estimated completion time: 2,5 hours Number of CSE's: 1

Customer application training? ☐ Yes ☒ No

Systems/Products affected/System identifying IVK

Name	Material No.	Serial No.
SIREMOBIL Iso-C	28 29 450 G5464	n.a.

Remark: n.a.

Components affected/to be modified

Name	Material No.	Serial No.	Component status Affected
Option 3D Image	56 46 950 G5486	1001 - 1155	n.a.

Remark: n.a.

Chg. Rev. No.: E02/03-035
Name: Arnold
Dept.: CS PS 24

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Chapter	Page	Revision
all	all	02

Document Revision Level

This document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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1	General Information	1 - 1
	Systems/Products Affected	1 - 1
	Reason for the Update	1 - 1
	Prerequisites	1 - 1
	Special Tools / Documents	1 - 1
	Ordering Information	1 - 1
	Contents of the Update Kit	1 - 2
	Return of Parts	1 - 2
2	Work Steps	2 - 1
	Backup	2 - 2
	MEMOSKOP Software Update	2 - 5
	Software	2 - 5
	Flow Chart MEMOSKOP software update.	2 - 5
	Prerequisites.	2 - 6
	Covers	2 - 6
	Saving the MEMOSKOP parameters to diskette	2 - 7
	Download MEMOSKOP software	2 - 9
	Download MEMOSKOP with empty Flash Proms	2 - 11
	SIREMOBIL Iso-C 3D Software	2 - 13
	Installing the SIREMOBIL Iso-C 3D Software	2 - 13
	Change of Directory permissions	2 - 16
	Start of the Syngo service software	2 - 17
	Restore	2 - 19
	Monitor settings	2 - 20
	Connectors	2 - 24
	Control software	2 - 24
	Manual Settings	2 - 25
	User Interface Language (not necessary for English)	2 - 26
	Country-specific Keyboard Layout (necessary for non US-Keyboard)	2 - 27
	Final work steps	2 - 28
	Covers	2 - 28
	System and safety tests	2 - 28
	Customer Information	2 - 28
3	Update Completion Form	3 - 1
	Completion Protocol / Update Completion Form	3 - 1
4	Changes to previous version	4 - 1

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Systems/Products Affected

All SIREMOBIL ISO-C systems, delivered or upgraded with the Option 3D Reconstruction

Reason for the Update

Improvement of the software.

Prerequisites

n.a.

Special Tools / Documents

Service PC	Operating system Windows 95 / 98
Service cable for PC	e.g. 99 00 440
1 set of X-ray filters, 10 x 0.3 mm	e.g. 44 06 120
17 mm Cu filter	e.g. 11 67 662
Resolution test	e.g. 28 71 820
Dynamic range test kit	e.g. 37 90 156
Protective conductor meter or Bender Safety Tester	e.g. 44 15 899 97 06 979
SIREMOBIL ISO-C Service Instructions	SPR2-230.061.01.03.
Speed Info Password list SIREMOBIL Iso-C	R141-97
1 empty CD-ROM	
Image Quality Quick Test (refer to the SIREMOBIL log book)	SPR2-230.037.01.05
Calibration service case	71 39 947

Ordering Information

The following update kit has to be ordered from CSML (SAP Distribution Channel, factory 2050) or BU Logistics (factory BU) (only with an order via BU Logistics):

Update Kit 71 40 929

List the system Serial Number on the order!

Contents of the Update Kit

Update kit 71 40 929 contains the following parts:

Item	Quan.	Part No.	Name
1	1	31 00 828	SW Memoskop C-3D VC01F
2	1	31 00 802	SW Memoskop C-SUB-3D VC01F
3	1	71 39 814	3D Software VB00C
4	1	71 39 913	Control-SW VB00B
5	1	SPR2-230.896.05.02	Update instructions

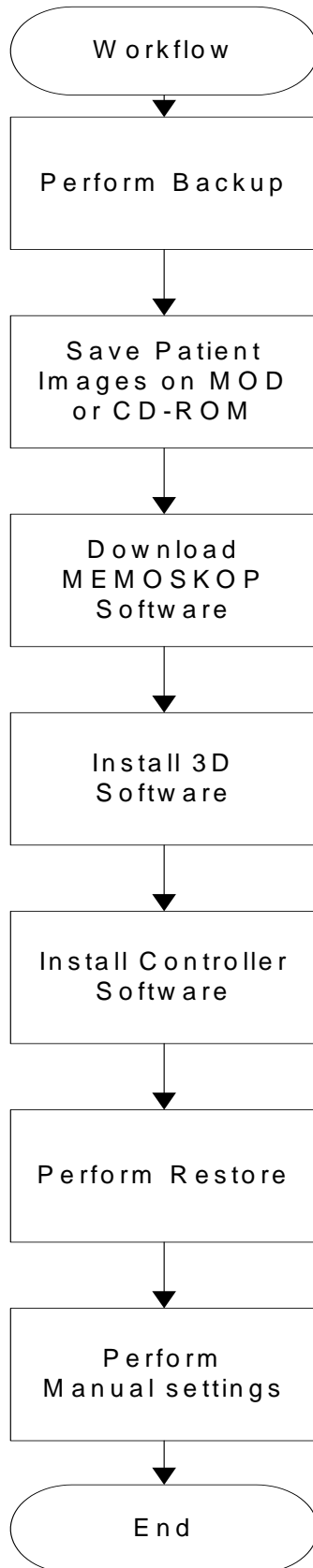
Tab. 1

Based on the above description, the CSE should be able to check the update kit for completeness prior to beginning the update.

Return of Parts

n.a.

Work flow

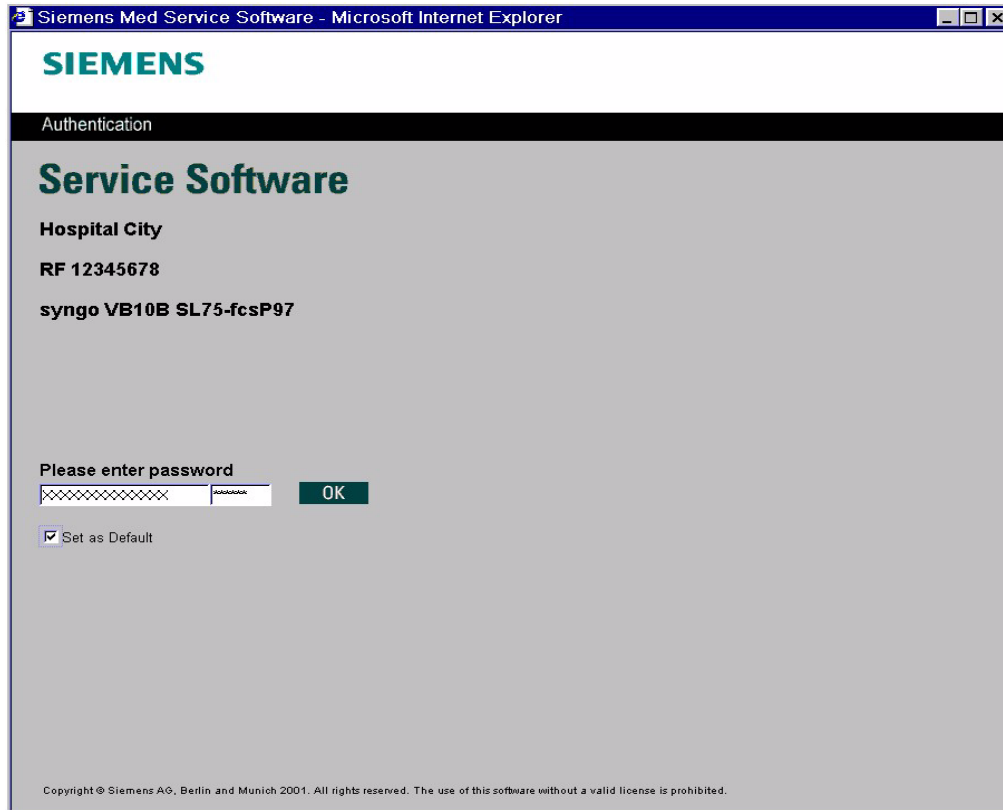


Backup

NOTE

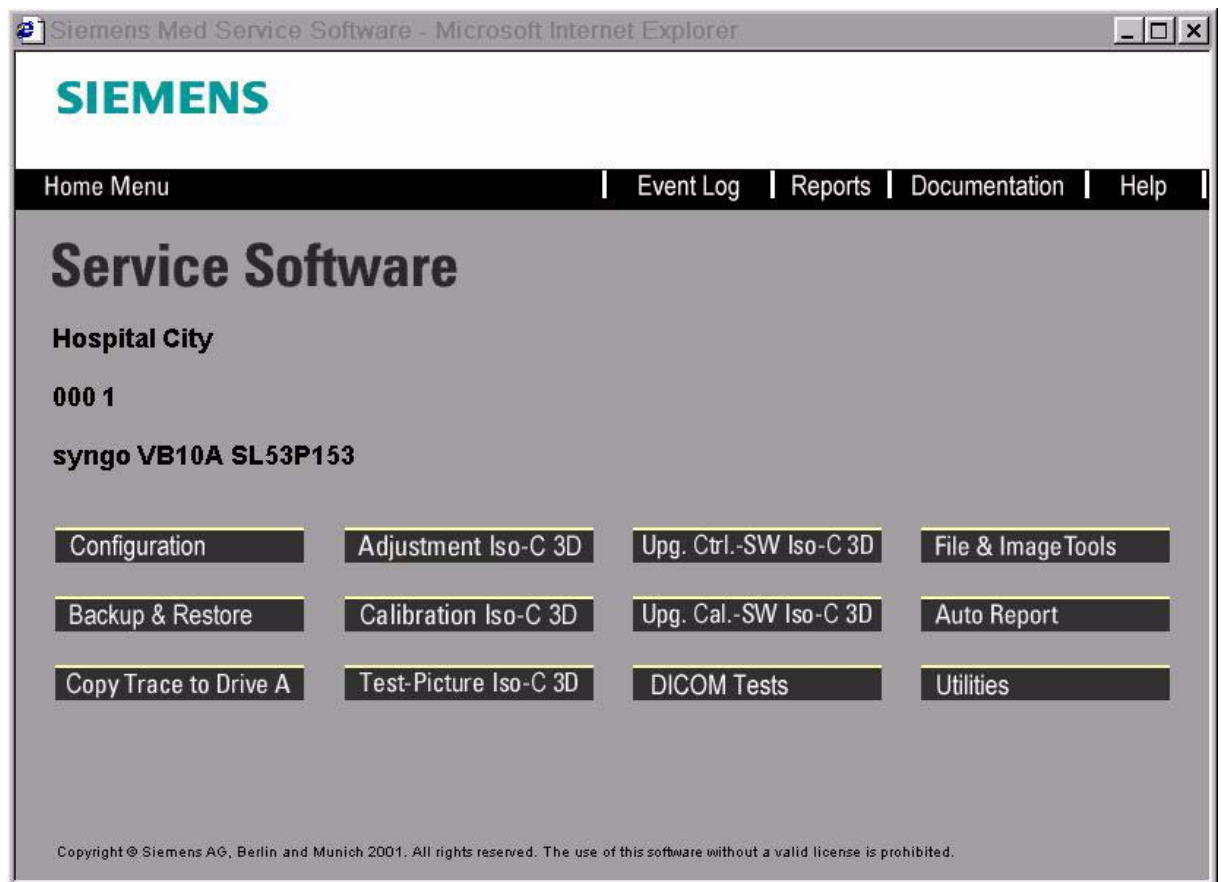
A backup is always necessary after software updates or system adjustment steps.

- From the Syngo User Interface, please select “**Options>>Local Service**” in the window menu header.



- Enter the service key (6 characters in 2nd mask).
- Confirm with <OK>.

- The Service Home menu appears.



- Select “**Backup & Restore**”.
- Insert the BACKUP CD-ROM into the CD-R drive.

⇒ The following window appears:



- In the "Command" selection menu, select "Backup".
- For "Drives", select the CD-R storage medium.
- The corresponding package is selected in "Packages".
Select the Package "SW Settings02" and save with "GO".
- Exit the window with "Home".
- Remove the backup CD-ROM from the CD-R drive.

NOTE

**A backup of the database (patient images) does not function!
Only the following is possible:
Saving the patient images to a MOD or CD-R.**

MEMOSKOP Software Update

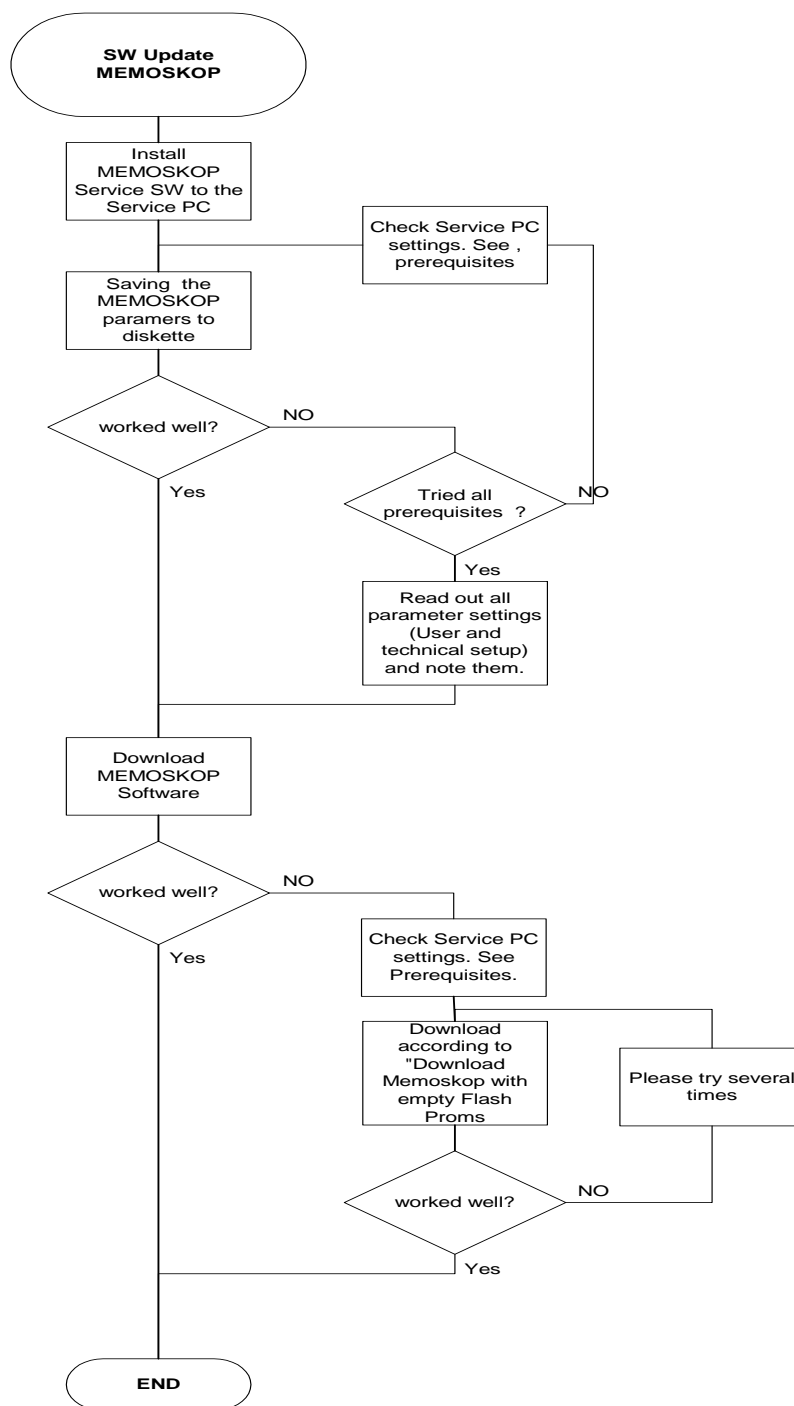
Software

for MEMOSKOP C-Sub 31 00 802 G5437

for MEMOSKOP C 31 00 828 G5437

Flow Chart MEMOSKOP software update

The flow chart SW update MEMOSKOP shows only the main working steps. In the case of problems during the MEMOSKOP software update, please follow the path of the flow chart.



Prerequisites

NOTE

Please pay attention to the service PC settings.

- Do not use the incompatible service PC "SCENIC MOBILE 350".

Before starting with the software updates, please observe the points mentioned below:

- The used serial interface cable must be fully wired between SIREMOBIL Iso-C and the service PC.
- Switch off the screen saver and end any programs running in the background.
- Check the jumpers D1.X95 / D1.X96 / D1.X 99. These should be set to position 2-3.
- Check the serial port FIFO settings of your service PC. The FIFO of the serial port must be enabled (default settings).
- In the case of correct host communication, but poor MEMOSKOP communication, temporarily switch D1.S3.2 to position ON. Ignore the error messages displayed at the SIREMOBIL user console. Ignore the MEMOSKOP service software error message "No communication with the X-ray system" and close Error message by clicking the "Ignore" button. Select the correct type of MEMOSKOP and start the necessary service work. After completion of the MEMOSKOP service work, switch D1.S3.2 back to OFF.

Covers

- Remove the back cover from the monitor trolley (important for installing MEMOSKOP software).

Saving the MEMOSKOP parameters to diskette

NOTE	Please pay attention to the prerequisites.
NOTE	<p>Before starting the download of the MEMOSKOP, save the parameters to diskette. In the case of transfer problems, saving them, read the prerequisites .</p> <p>Follow the flow chart in section "Flow Chart MEMOSKOP software update".</p> <p>If the parameter set can't be stored on the diskette, read out the MEMOSKOP parameters (User setup and Technical setup) and note them manually.</p>
NOTE	<p>If a transfer error or error messages with "ComPort", "Download", "Get from Memoskop", "Put to Memoskop" and when loading the language file still occur, please repeat this function several times. If the problem persists, then exit the service software.</p> <p>Switch SIREMOBIL off and then on again, wait for power-up and start the service software again. Perform the last work step again.</p>
NOTE	<p>Before using the host service software or MEMOSKOP service software, the write protection of the corresponding parameter diskettes have to be switched off</p>

- Insert the MEMOSKOP diskette "User Programs" into the service PC, drive A.
- Start the MEMOSKOP service software.
- Enter the password and press the Return key on the service PC.
- Select the required serial interface on the service PC.

- The program window "Memoskop Service Program" (Fig. 3) is then displayed.

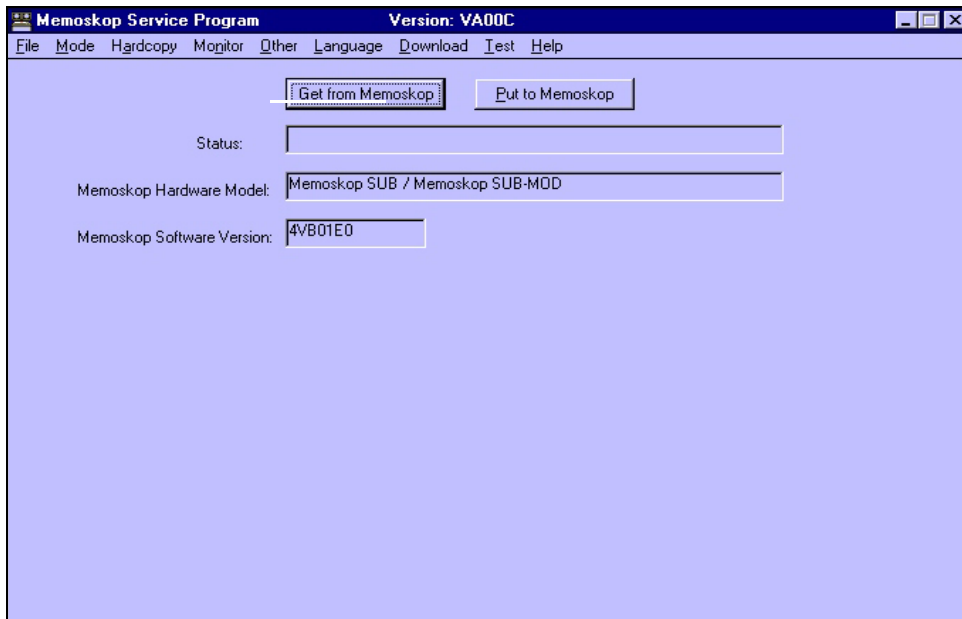


Fig. 1

- After the main menu appears, click on the "Get from Memoskop" button and wait until the parameters have been transferred from the MEMOSKOP to the PC. After the transfer, the status line shows "....Receiving configuration done"
- Then save the parameters to the diskette (menu "File", submenu "Save").
- For the file name, enter the actual date. The file extension should be "mem".

Example:

The current date is: (DD_MM_YY) 28_06_03

Enter the file name+file extension: 28_06_03.mem

- Wait for the parameters to be saved on diskette.

NOTE

If errors occur during the transfer of the MEMOSKOP parameters to the service PC (e.g. communication errors), read the prerequisites.

NOTE

If the MEMOSKOP service program must be started again, the unit must also be switched off and on again.

- If the storage of the MEMOSKOP parameter set to diskette is not possible, all parameters (User setup and technical setup) must be read and noted manually.

Download MEMOSKOP software

NOTICE

If errors occur during download of the MEMOSKOP software (e.g. communication errors) read the prerequisites.

In this case, stop the download procedure and try download as described in section "Download MEMOSKOP with empty Flash Proms" if needed again.

- For the MEMOSKOP displayed insert the corresponding diskette supplied into drive A of the service PC (MEMOSKOP software).
- Select the "Download" menu.
- Select "Select file for Download:".
- The program window "Open File" opens.
- Select drive A.
- Select the file xVC0xxx.mot) and confirm the selection with "OK".

(first x = 3 or 4, depending on existing MEMOSKOP. See note below.)

- | | | |
|---|---------------------|--------------------|
| 3 | MEMOSKOP C-E 100 | |
| | MEMOSKOP C | Select 3VC01F0.mot |
| | MEMOSKOP C-MOD | |
| 4 | MEMOSKOP CSUB | |
| | MEMOSKOP C-SUB &MOD | Select 4VC01F0.mot |

NOTE

If the service program is not able to recognize the MEMOSKOP installed automatically, select the type of MEMOSKOP manually. For MEMOSKOP C-E 100, MEMOSKOP C and MEMOSKOP C-MOD, select model 3. For MEMOSKOP C-SUB and MEMOSKOP C-SUB & MOD, select model 4

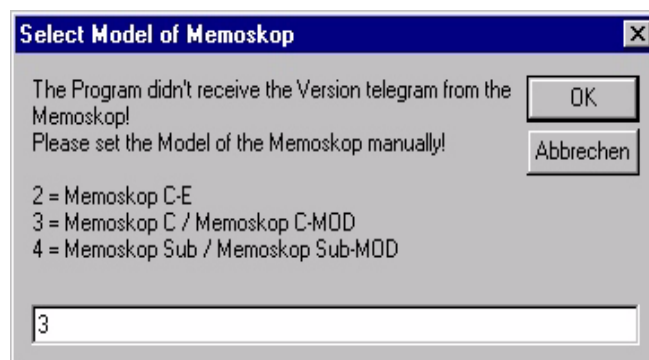


Fig. 2

- Select "Erase FLASHes" .

- ⇒ While the Flash Proms are being erased, dots will be displayed in the status line.
- ⇒ After erasing, the "...Ready" message will be displayed in the status line.
- ⇒ The DOWNLOAD button is now selectable.

NOTE

The "Download File" button must be pressed (clicked) within 120 seconds maximum!

- Select "Download File" .

NOTE

It will take approximately 20 minutes to load the new MEMOSKOP software.

- After successful completion of the Download, the "Download complete" message will be displayed in the status line.

NOTE

If the Download is not performed completely (communication errors or undefined symbols in the status line), stop the download procedure and follow the description in section "Download MEMOSKOP with empty Flash Proms".

- Exit the Service program.
- Switch the unit off .

Download MEMOSKOP with empty Flash Proms

NOTE

This section describes the downloading procedure for the MEMOSKOP with empty Flash Proms. If downloading as described in the previous section could be carried out successfully, skip this section.

- Switch the unit off and exit the Memoskop service program.
 - The cover of the basic unit and the rear cover of the monitor trolley are removed.
 - Set the service switch D1.S3.2 to the ON position.
 - Switch on the unit. Ignore the error messages displayed at the user console.
 - Insert the corresponding diskette supplied into drive A of the service PC (MEMOSKOP software).
 - Start the MEMOSKOP service program and enter the password.
 - Select the service PC serial interface.
 - Ignore the message "No communication with the X-Ray system by clicking the "Ignore" button.
 - For the error message "The Program didn't receive the version message from the MEMOSKOP", manually select the MEMOSKOP model.
- 3 MEMOSKOP C-E 100
 MEMOSKOP C
 MEMOSKOP C-MOD
 - 4 MEMOSKOP C-SUB
 MEMOSKOP C-SUB & MOD

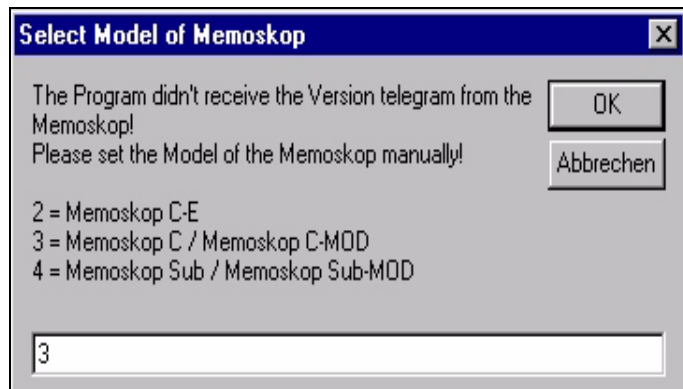


Fig. 3

- Select the "Download" menu.
- Select "Select file for Download:".
- The program window "Open File" opens.
- Select drive A.

- Select the file xVC0xxx.mot (Fig. and confirm selection with "OK".
(first x =3 or 4, depending on existing MEMOSKOP. See below.)

- | | | |
|---|----------------------|--------------------|
| 3 | MEMOSKOP C-E 100 | |
| | MEMOSKOP C | Select 3VC01F0.mot |
| | MEMOSKOP C-MOD | |
| 4 | MEMOSKOP C-SUB | |
| | MEMOSKOP C-SUB & MOD | Select 4VC01F0.mot |

- Select "Erase FLASHes" .
- Press the reset button on the back of the MEMOSKOP for 4 seconds as soon as possible.
 - ⇒ While the Flash Proms are being erased, dots are displayed in the status line.
 - ⇒ After erasing, the "...Ready" message is displayed in the status line.
 - ⇒ The DOWNLOAD button is now selectable.

NOTE

The "Download File" button must be pressed (clicked) within 120 seconds maximum!

- Select "Download File" .

NOTE

It will take approximately 20 minutes to load the new MEMOSKOP software.

- After successful completion of the download, the "Download complete" message is displayed in the status line.
- Wait until the MEMOSKOP has rebooted.
- Exit the Service program.
- Switch off the unit.
- Switch the service switch D1.S3.2 back to the OFF position.
- Switch the unit on (wait for entire power-up sequence) .

NOTE

If the download is not performed completely (communication errors or undefined symbols in the status line), read the pre-requisites.

Stop the download procedure, end the Memoskop service program, switch off the unit and repeat the download procedure as described in section "Download with empty Flash Proms".

SIREMOBIL Iso-C 3D Software

Installing the SIREMOBIL Iso-C 3D Software

- The SIREMOBIL Iso-C is still running. Insert the CD labeled "3D Software" into the CD-R drive.
- Shut down the SIREMOBIL Iso-C and wait until power is off.



- Disconnect the "Memoskop SCSI Adapter" plug from the PC.
- Disconnect the "power plug" from the MEMOSKOP.
- Release the video switch 1 button (to the left as viewed from the back of the monitor), the switch should not be pressed.



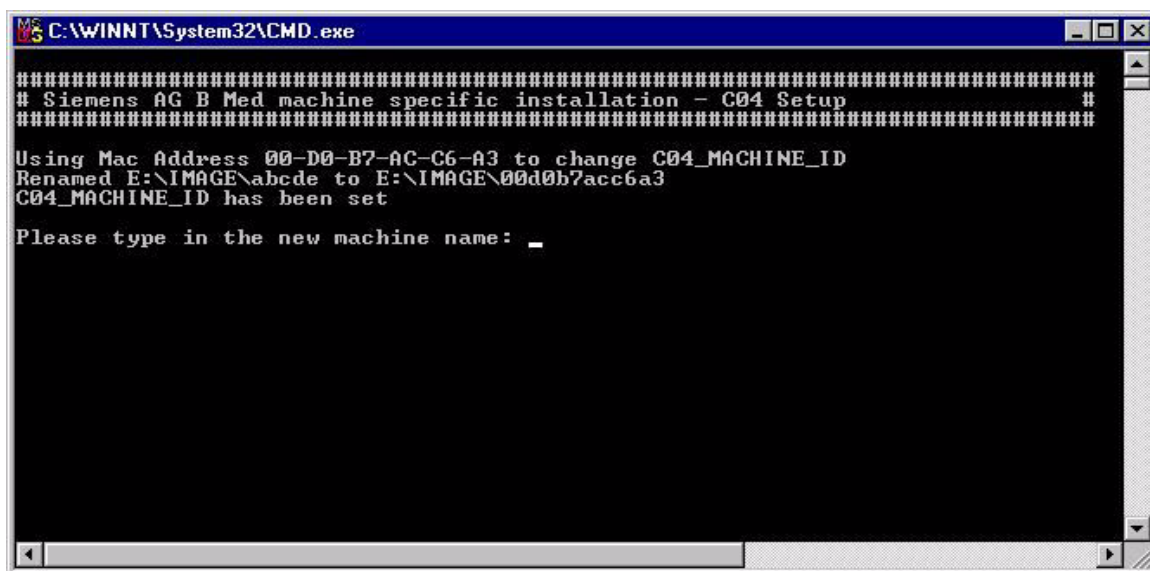
- Disconnect the "DICOM Network Plug" from the 3D PC.
- Connect the Dongle, if not already connected.
- Restart the SIREMOBIL Iso-C.
 - ⇒ The PC will start automatically. The start-up can be viewed on the right monitor.
 - ⇒ After approx. 15 minutes, the following message will appear on the monitor.

```

= Installation complete ...=====
|| System and image partition were set up.||
|| Please make sure there is no disk in the floppy drive||
|| (Press any key to reboot the system now)||
|| IMPORTANT : While the system is rebooting, eject||
|| the CD-ROM and remove it from the drive !||
=====
  
```

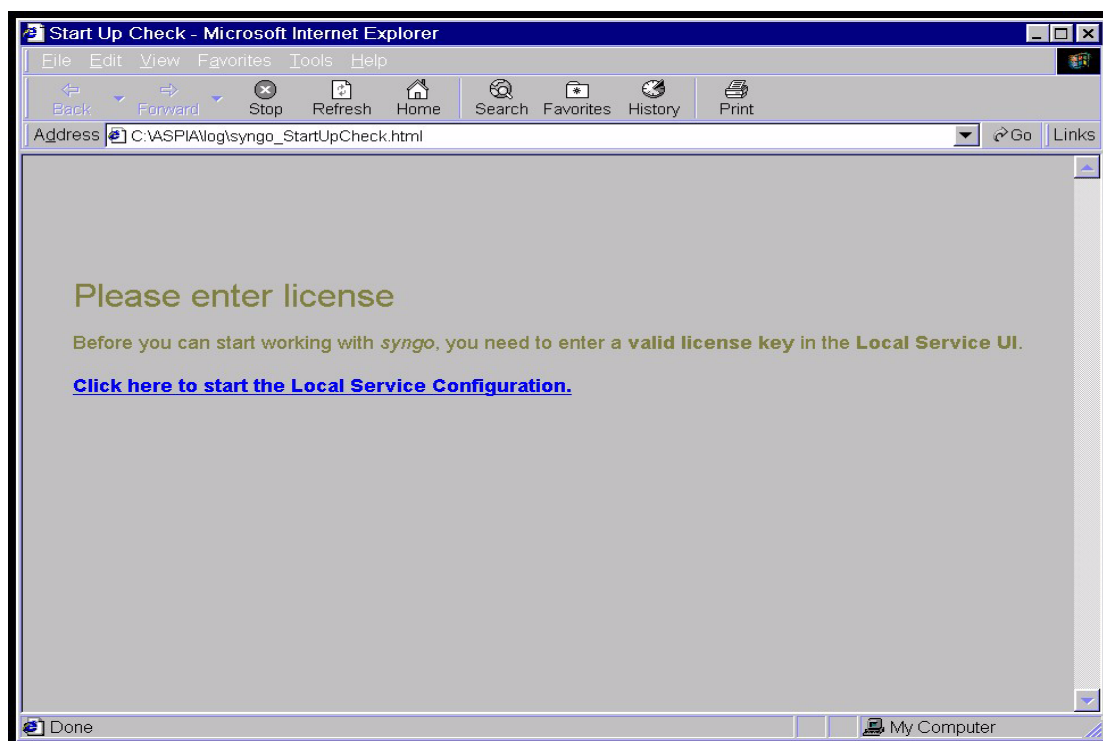
- Press the space key and remove the CD. The 3D PC will reboot.

- Wait until the following screen appears.
Ignore the message concerning monitor settings.



- Enter the 3D PC name.
- Press the "Enter" key 2x.
 - ⇒ The computer will shut down and restart automatically.

The Internet Explorer will start; the following screen will appear



Change of Directory permissions

NOTE

Before entering the license key, the access rights for the Med_Pixel drive must be changed as described below.

Click the Start button and select the "Logoff Meduser" menu.

Press and hold down the Shift key and then click the Yes button.

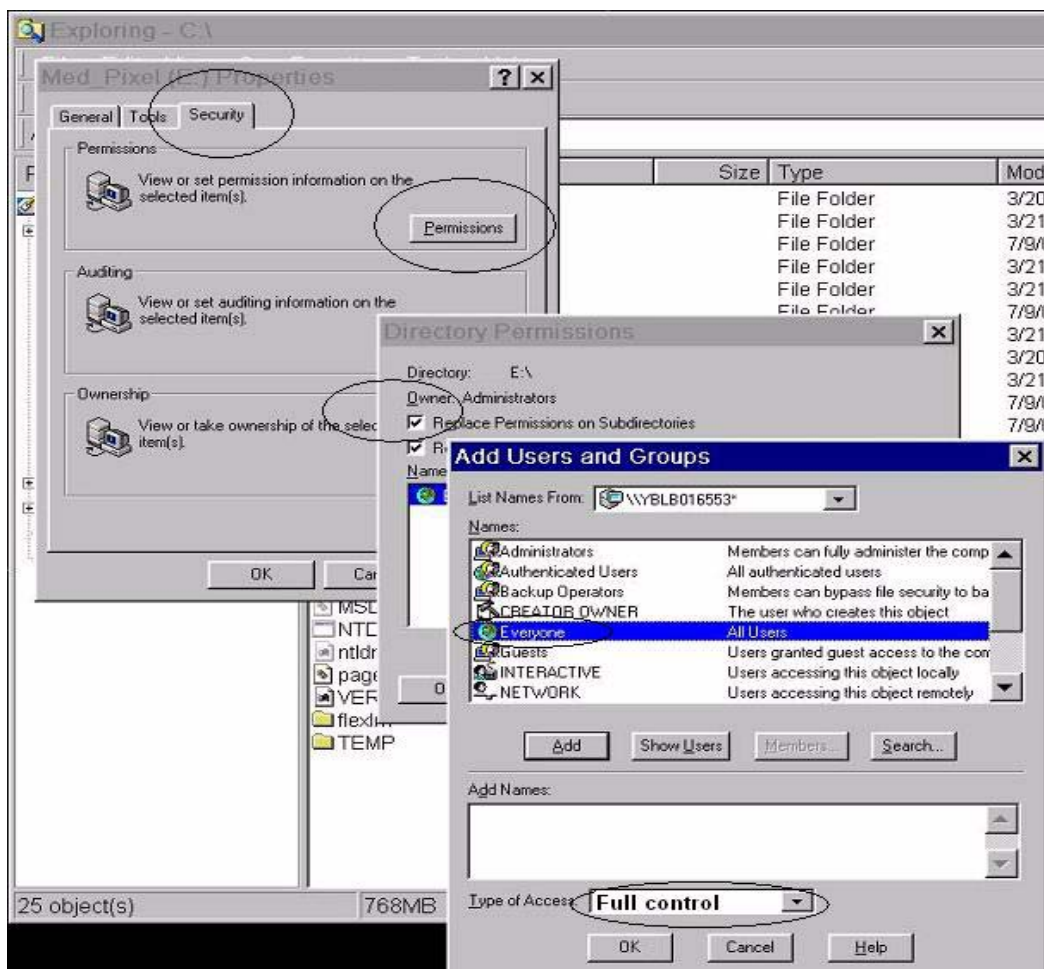
The "Logon Information" window is displayed.

You can now release the Shift key.

In the "Logon Information" window, enter "administrator" as user name.

In the "Logon Information" window, enter "adm\$pwd\$4\$med" as password.

Click the OK button to close the window.



Open the Windows NT Explorer (Menu "Start - Programs - Windows NT Explorer").

Select the "Med_Pixel (E:)" drive and press the right mouse button.

Click "Properties" in the popup menu. The "Med_Pixel (E:) Properties" window is displayed.

Select the "Security" tab.

In the "Security" window, select the "Permissions" button. The "Directory Permissions" window is displayed.

In the "Directory Permissions" window, select the checkbox marked "Replace Permissions on Subdirectories".

In the "Directory Permissions" window, click the "Add" button. The "Add Users and Groups" window is displayed.

In the "Add Users and Groups" window, under "Names:", click "Everyone" and accept the selection by clicking the "Add" button.

In the "Add Users and Groups" window, in the "Type of Access:" selection window, select "Full control" and confirm by clicking the OK button.

Close all windows by clicking the OK button.

Restart the PC by clicking "Start"- Shutdown - Restart - OK.

Wait until the system has booted.

The "Logon Message" window is displayed. Close this window by clicking the OK button.

The "Logon Information" window appears.

Enter "meduser" as user name.

Enter "@medUser000" as password. (For the @ symbol, press Shift + 2).

Close the window by clicking OK.

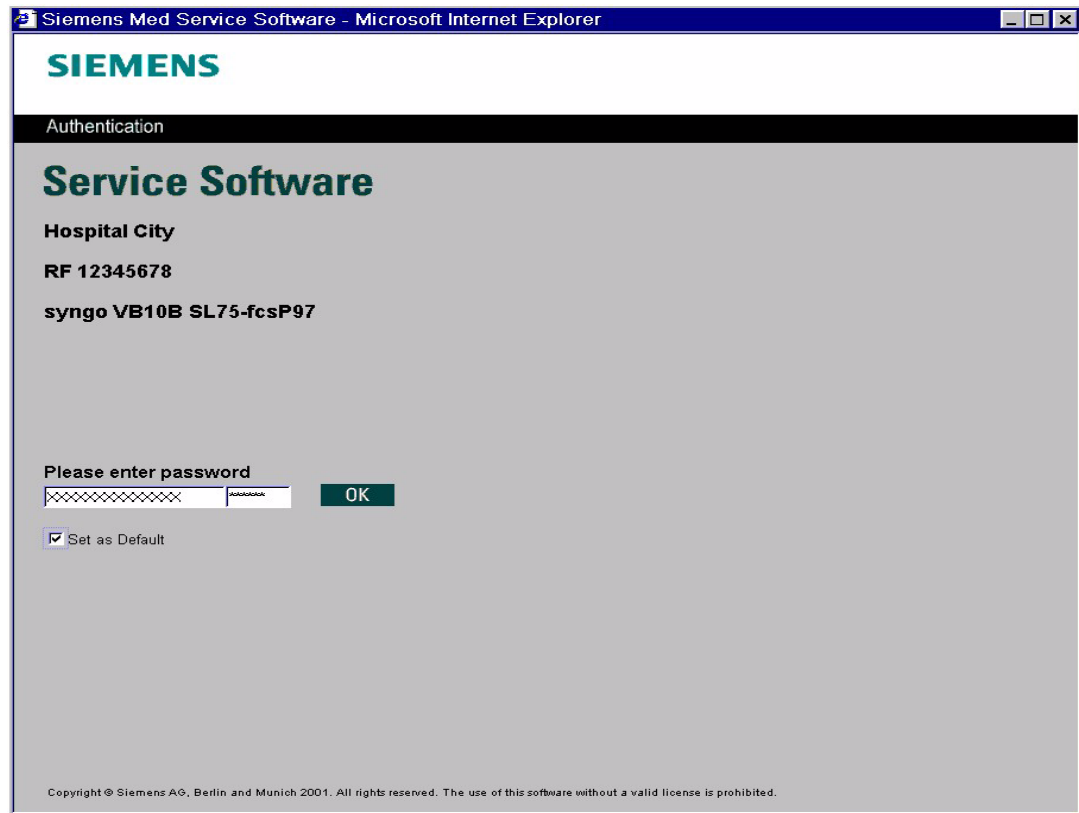
The Internet Explorer will start; the following screen will appear.

Start of the Syngo service software



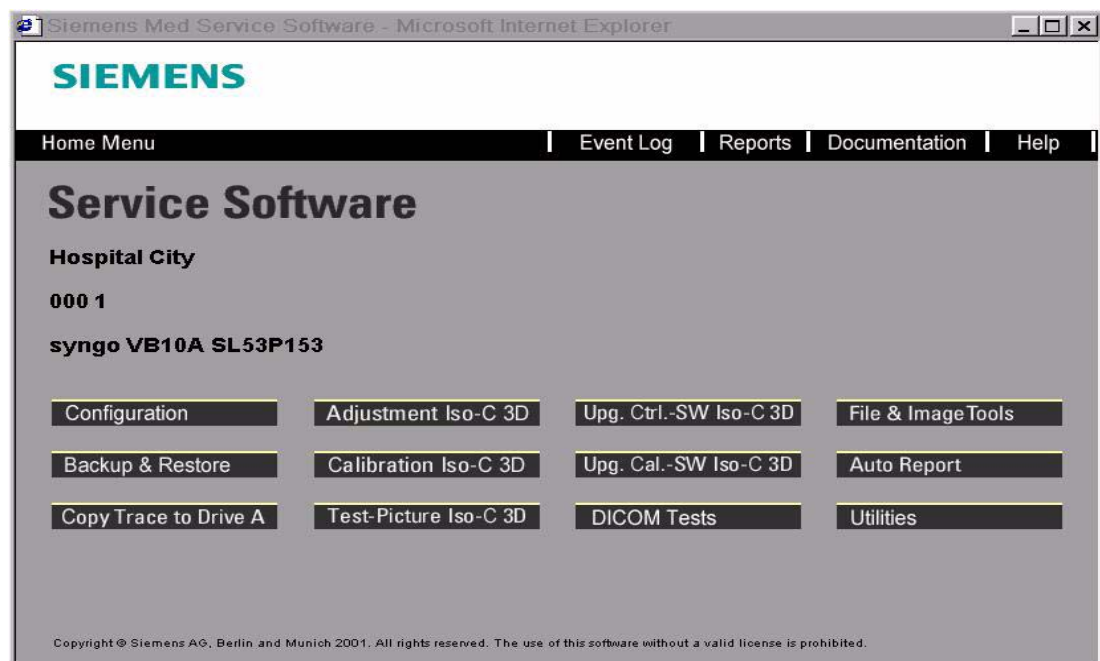
- Select the line "Click here to start the Local Service Configuration".

⇒ The "Service Software" screen will appear.



- Enter the service key (6 characters in 2nd mask).
- Select "set as default" and confirm with <OK>.

⇒ The Service Home menu appears.



Restore

- Select the “**Backup & Restore**” button in the Service Home menu.
- Insert the BACKUP CD-ROM into the CD-R drive.

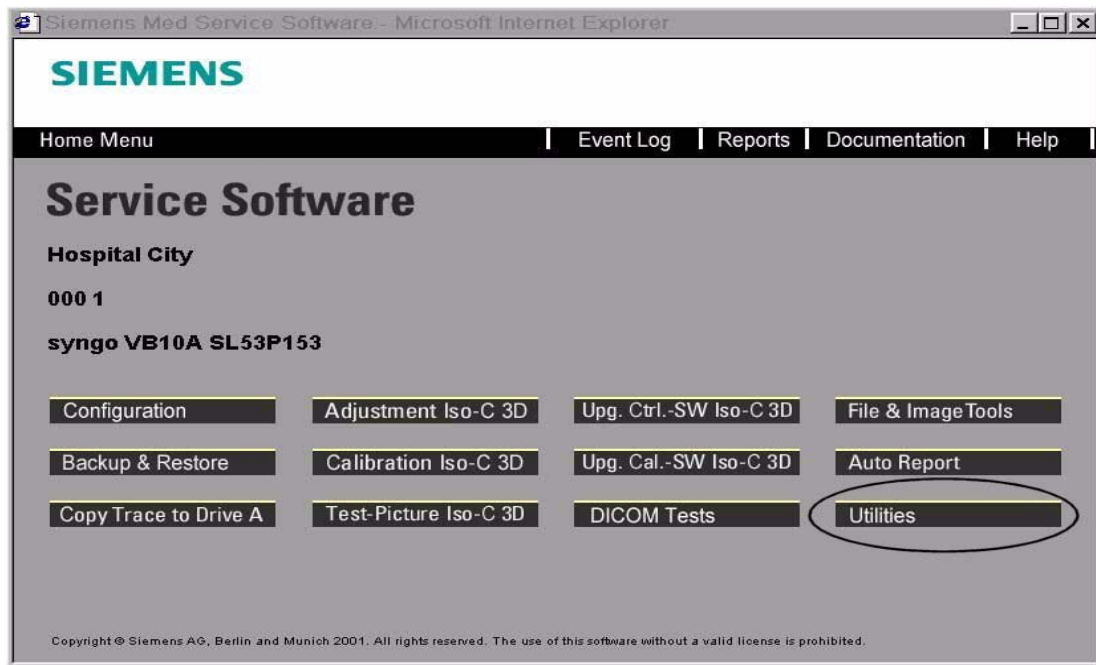


- Select "Restore" in the “Command” list box.
- Select "CD-R" in the "Drives" list box.
- Select the correct (latest) "SW Settings02" backup file in "Archives".
- Mark all files in "Groups" i.e. (with Ctrl + left mouse button).
- The restore routine is started by clicking on the "Go" button.
 - ⇒ Wait until the "Ready" message appears in the footer. This will take a few minutes.
- Exit the window with “Home”.
- The PC initiates a restart automatically or you must restart it manually.
- Remove the backup CD-ROM from the CD-R drive when the system has shut down.

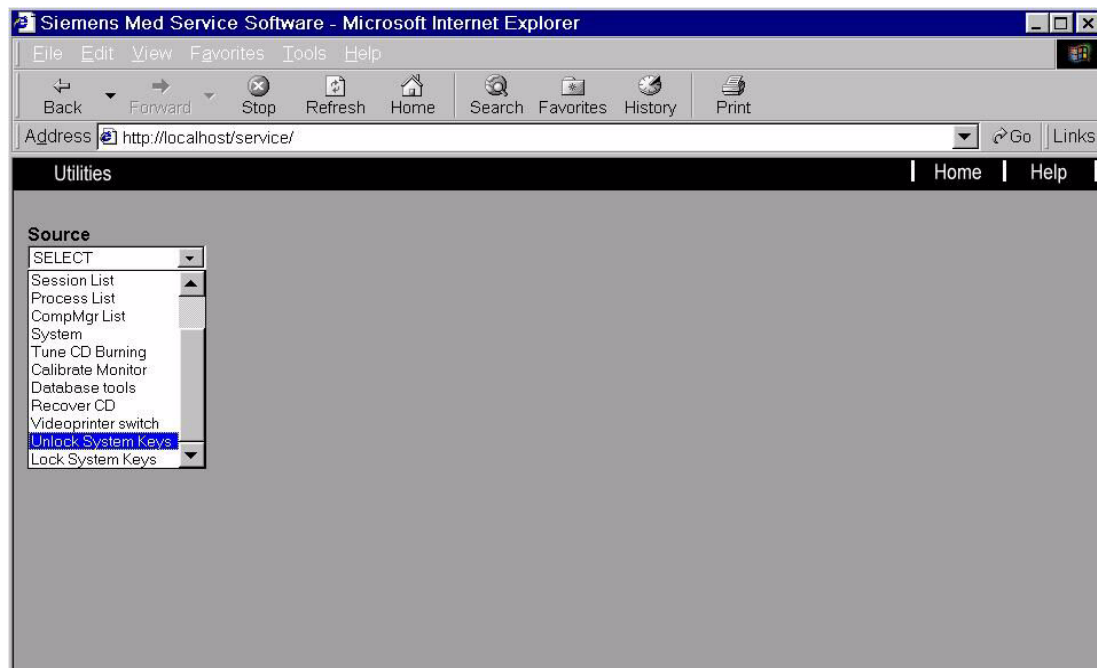
Monitor settings

from the Syngo User Interface.

- Select "Option".
 - Select "Local Service".
- ⇒ The Service Home menu appear.



- Select "Utilities".



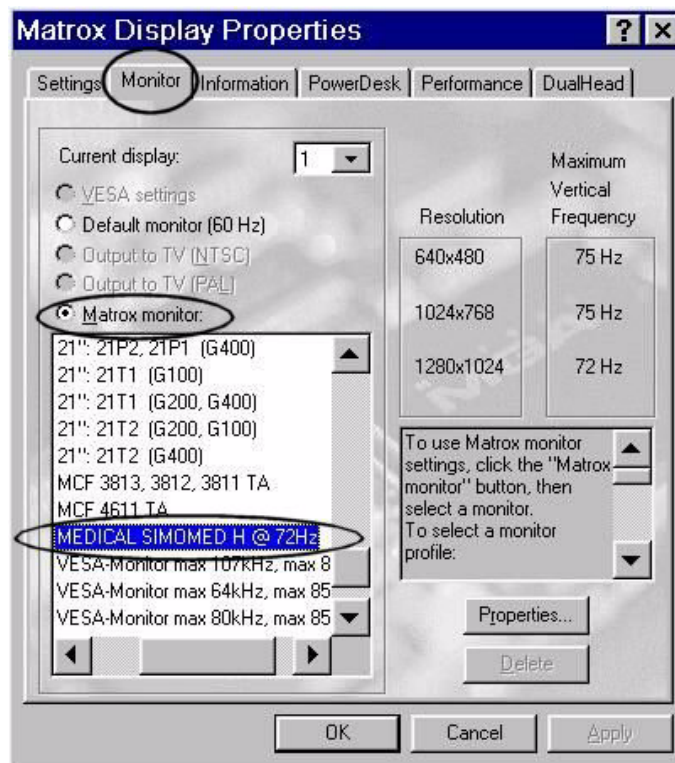
- Under "Source," select the item "Unlock system key".
- Select "OK".

NOTE

After exiting the program, the Windows task bar is closed automatically. To display the task bar again, press the key combination "CTRL" + "ESC".

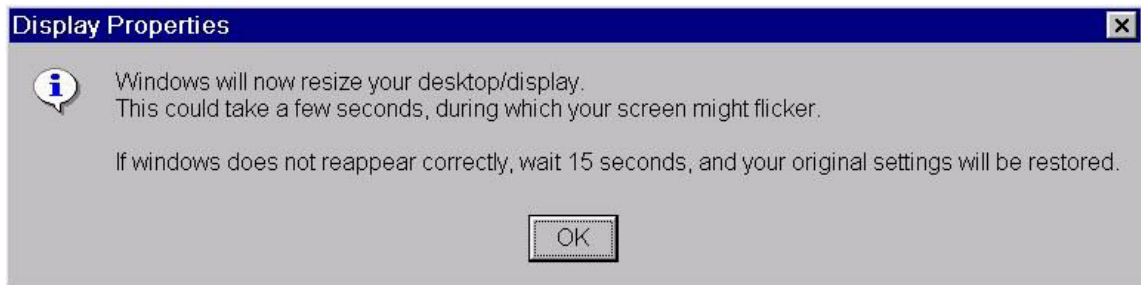
The "Matrox Display Properties" program is closed automatically after each setting and selection of the OK button. The program must be restarted for the next settings (Start - Programs - Matrox Power desk NT - Matrox Display Properties).

- Press the "CTRL" + "ESC" keys simultaneously.
- Click "Enter".
 - ⇒ The WINDOWS task bar will appear.
- Select "Start".
- Select "Programs".
- Select "Matrox Power Desk NT".
- Select "Matrox Display Properties".
(If it is not displayed in front, move the other displayed window(s) to the side.)

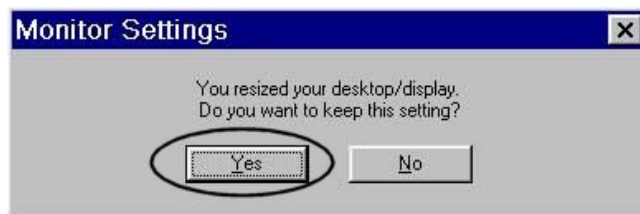


- Select the "Monitor" button.
- Select "Matrox Monitor".
- In the selection window, select "Siemens" by double-clicking.
- Select the "Medical Simomed H @ 72 Hz" monitor.

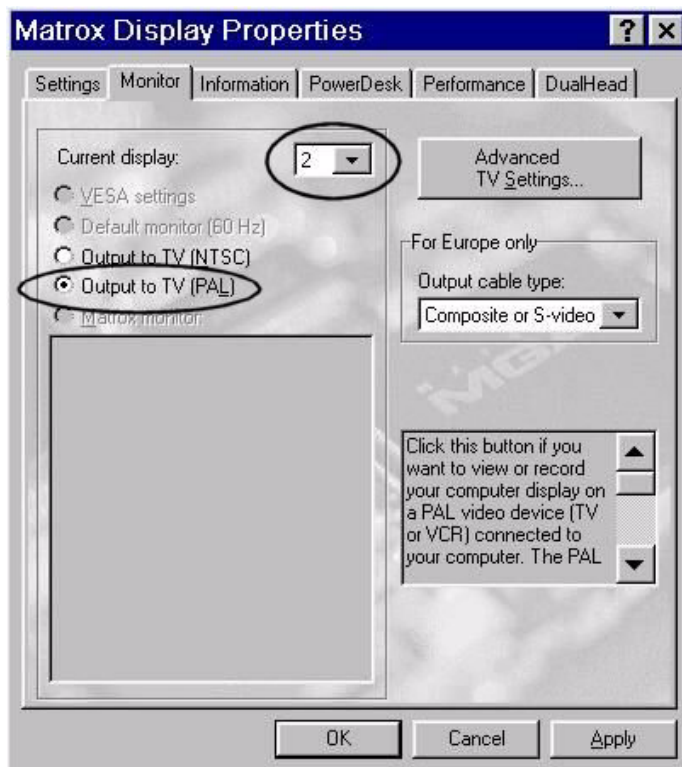
- Select "Apply".



- Confirm by clicking "OK".



- Confirm the message by selecting "YES".
 - ⇒ The monitor resolution has been changed over.

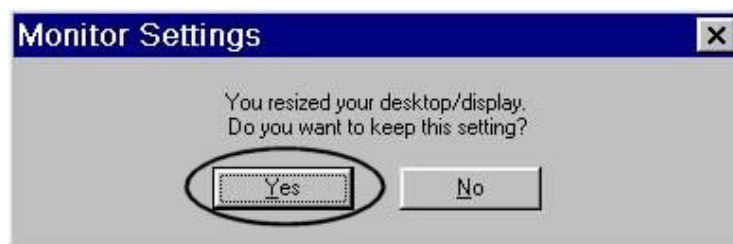


- Under "Current display", select 2.
- Select "Output to TV (PAL)".

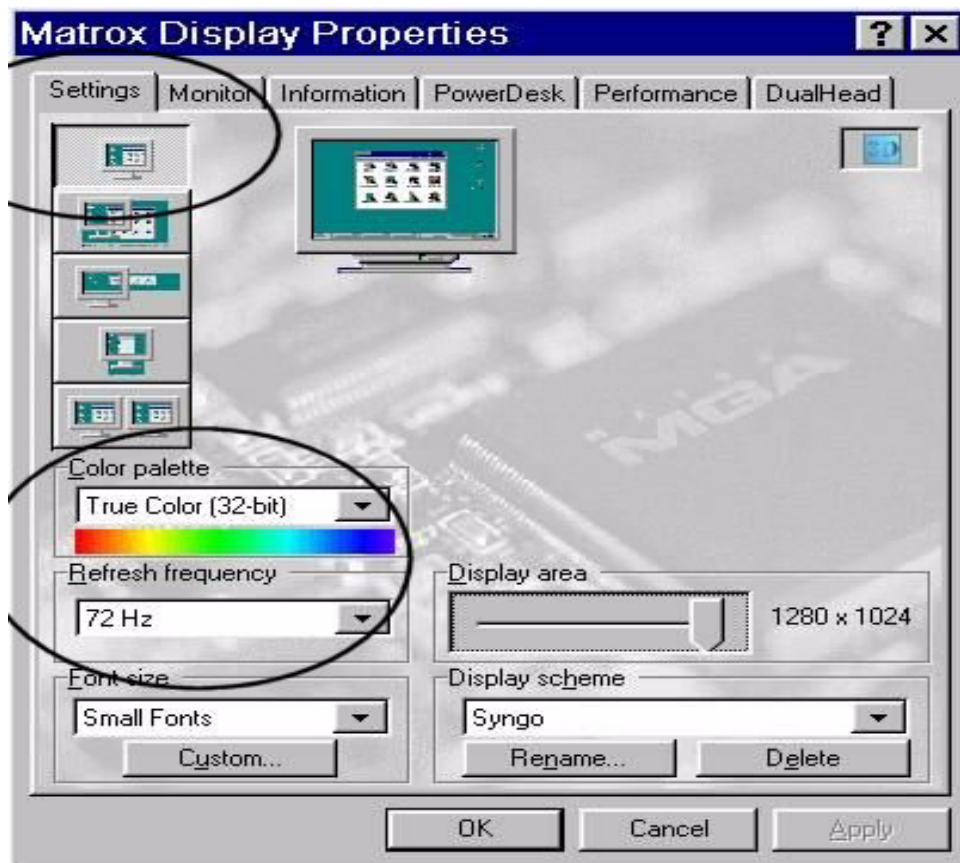
- Confirm by clicking "Apply".



- Confirm by clicking "OK".



- Confirm by clicking "Yes".



- Select "Settings".

- Select "True Color (32-bit)".
- Select "72 Hz" refresh frequency.
- Confirm by clicking "OK", even if the other settings are correct.
- Select "Start".
- Select "Shutdown".
- Select "OK" for shutdown and wait until the WINDOWS message "It is now save to..." appears.
- Shut down the SIREMOBIL Iso C 3D and wait until the SIREMOBIL Iso C 3D has shut down completely.

Connectors

- Connect the MEMOSKOP power plug.
- Connect the SCSI plug to the MEMOSKOP.
- Connect the DICOM Network connector at the 3D PC
- Press the video switch 1 button (to the left as viewed from the back of the monitor), the button is now depressed and hit up.
- Switch on the SIREMOBIL Iso-C 3D.
 - ⇒ The MEMOSKOP image will appear on the right monitor.
- Wait approx. 2 - 3 minutes until the PC has rebooted.
- Press "CTRL" + "D" to display the PC image on the right monitor.

Control software

- The System is still running.
- In Syngo, start the local service (menu "Option" / "Local Service").
- Enter the password.
- Select the "Upgrade Ctr.SW" button.
- Insert the CD-ROM "Control Software VB00B" into the CD-R drive.
- Select the "CD-ROM" drive.
- Click on the "Go" button.
- Wait until the message "download successful" appears.
- Remove the CD-ROM from the CD-ROM drive.
 - ⇒ The Reconstruction PC will shut down automatically.
- Switch off the SIREMOBIL Iso-C 3D.
- Restart the SIREMOBIL Iso-C 3D.

Manual Settings

NOTE

The changes become effective only after a reboot is performed!

- The system is still running.
- The regional settings should be performed manually.

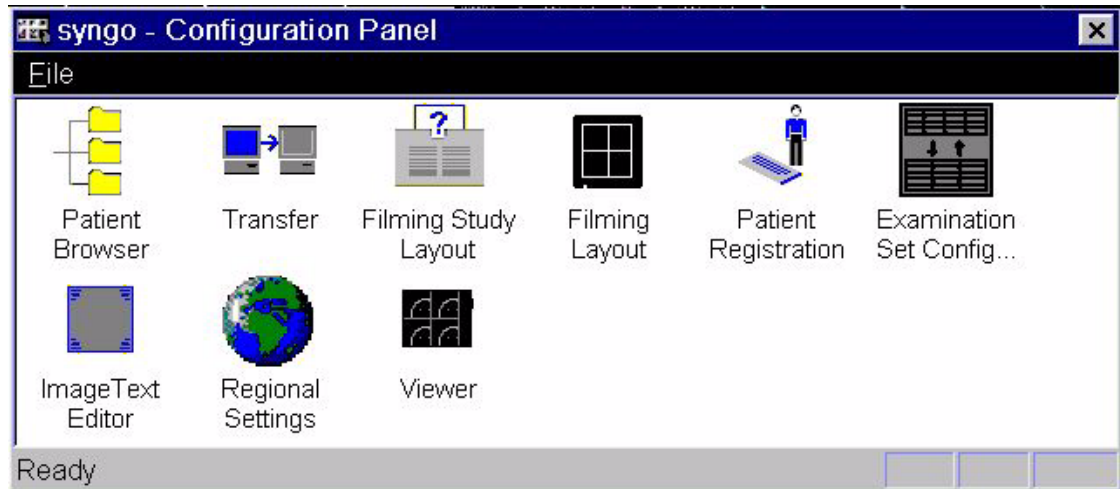
User Interface Language (not necessary for English)

NOTE

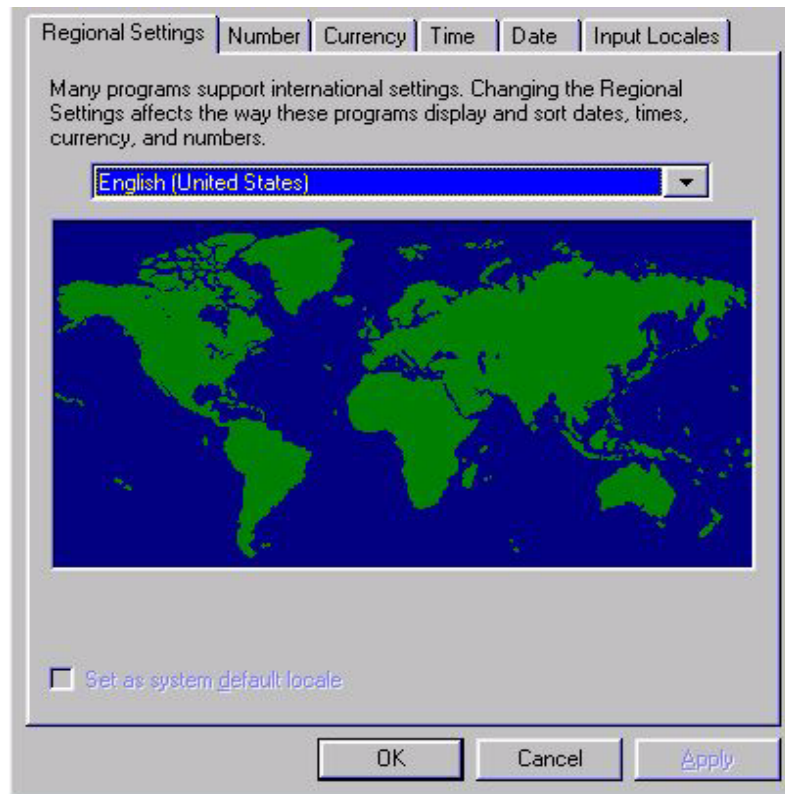
A selection can be made between English, German, Spanish and French

- From the Viewer Interface select "<Options> <Configuration...>".

⇒ The following window appears:



- Double-click on "**Regional Settings**".

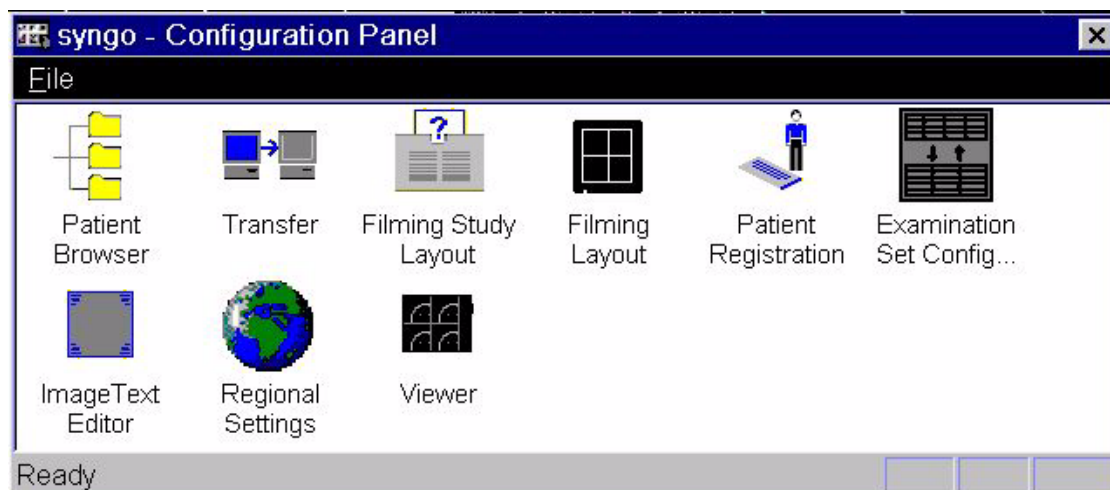


- Select the desired language here and confirm with "OK".
- Confirm the prompt for a restart with "OK" to accept the settings.

Country-specific Keyboard Layout (necessary for non US-Keyboard)**NOTE**

It is possible to choose between an English, German and French keyboard layout.

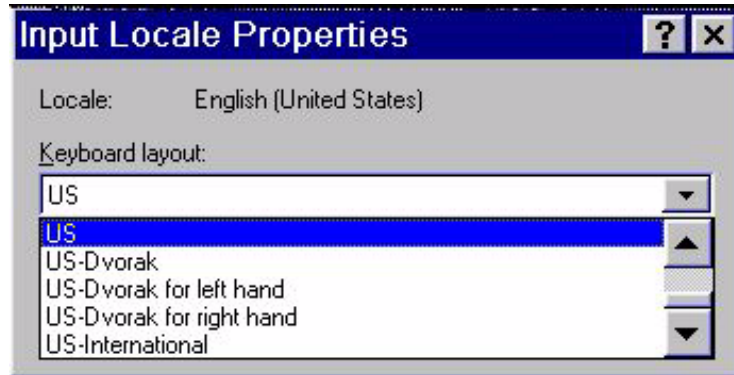
The following window appears:



- Double-click on **"Regional Settings"**.
- Select **"Input Locales"**.



- Double-click on one selection.



- Select the layout that corresponds to the keyboard that has been shipped in "**Keyboard layout**".
- Click "OK".
- Click "OK".

Final work steps

Covers

- Close all covers.

System and safety tests

- Perform a final check. Check of the overall function of the system.
- Perform the Image Quality Quick Test (refer to the SIREMOBIL logbook).
- Perform the protective conductor test in accordance with ARTD - 002.731.17.
The protective conductor resistance must not exceed 0.2 ohms.
- File the update instructions in the System Binder or the System Logbook.
- Fill out, and if needed, copy the attached "Update Completion Form" and insert it into Register 10 of the System Binder or System Logbook.

Customer Information

n.a.

Completion Protocol / Update Completion Form

The update with the number **SP012/03/I** has been completed.

Material number:

Serial number:

Customer: Functional Location:

Customer No.:

Name (CSE): Telephone:

Country: Location:

Date: Signature:

Remark:
.....

NOTE

After completing the update, make a copy of this page, fill it out and file it in the corresponding System Binder/User Handbook.

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Chap. 0	Cover page - serial number range of systems concerned corrected Revision level, table of contents revised
Chap. 2 - 16	Section "Change of Directory permissions" added.
Chap. 2 - 21	Note added.
Chap. 2 - 24	"Wait approx. 2 - 3 minutes until the PC has rebooted" added.

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